

Title (en)

DATA PACKAGE FORWARDING METHOD, SYSTEM AND DEVICE

Title (de)

VERFAHREN, SYSTEM UND VORRICHTUNG ZUR WEITERLEITUNG VON DATENPAKETEN

Title (fr)

PROCÉDÉ, SYSTÈME ET DISPOSITIF DE RÉACHEMINEMENT DE PAQUETS DE DONNÉES

Publication

**EP 2360879 A4 20120111 (EN)**

Application

**EP 09827135 A 20090707**

Priority

- CN 2009072671 W 20090707
- CN 200810219260 A 20081120

Abstract (en)

[origin: WO2010057386A1] A data package forwarding method, a communication system and a Carrier Grade Network Address Translation (CGN) device and an access gateway are provided. The CGN device (1) communicates with an access gateway (7) via IPv4 network and is used for receiving a first data package forwarded by the access gateway (7) and for judging whether the first data package is an IPv4 message or an IPv6-over-IPv4 tunnel message; the first data package is forwarded into an IPv4 network if the first data package is an IPv4 message; the CGN device (1) de-encapsulates the first data package if the first data package is an IPv6-over-IPv4 tunnel message to obtain the first IPv6 message and forwards the first IPv6 message to an IPv6 network or to an IPv4 network. The implementation of the embodiments of the present invention solves the technical problems of full usage of IPv4 network and of gradually and incrementally allocating IPv6 network and of realizing communication.

IPC 8 full level

**H04L 12/46** (2006.01); **H04L 12/56** (2006.01); **H04L 29/12** (2006.01); **H04L 45/748** (2022.01)

CPC (source: EP US)

**H04L 12/4633** (2013.01 - EP US); **H04L 45/748** (2013.01 - EP US); **H04L 61/2514** (2013.01 - EP US); **H04L 61/2592** (2013.01 - EP US); **H04L 45/306** (2013.01 - EP US); **H04L 2101/677** (2022.05 - EP US); **H04L 2212/00** (2013.01 - EP US)

Citation (search report)

- [X] SHIRASAKI Y ET AL: "NAT444 with ISP Shared Address; draft-shirasaki-nat444-isp-shared-add r-00.txt", NAT444 WITH ISP SHARED ADDRESS; DRAFT-SHIRASAKI-NAT444-ISP-SHARED-ADD R-00.TXT, INTERNET ENGINEERING TASK FORCE, IETF; STANDARDWORKINGDRAFT, INTERNET SOCIETY (ISOC) 4, RUE DES FALAISES CH- 1205 GENEVA, SWITZERLAND, 27 October 2008 (2008-10-27), XP015059912
- [A] TSIRTSIS BT P SRISURESH CAMPIO COMMUNICATIONS G: "Network Address Translation - Protocol Translation (NAT-PT); rfc2766.txt", 5. JCT-VC MEETING; 96. MPEG MEETING; 16-3-2011 - 23-3-2011; GENEVA;(JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11AND ITU-T SG.16 ); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JC TVC-SITE/, INTERNET ENGINEERING TASK FORCE, IETF, CH, 1 February 2000 (2000-02-01), XP015008549, ISSN: 0000-0003
- [A] NORDMARK SUN MICROSYSTEMS E ET AL: "Basic Transition Mechanisms for IPv6 Hosts and Routers; rfc4213.txt", 5. JCT-VC MEETING; 96. MPEG MEETING; 16-3-2011 - 23-3-2011; GENEVA;(JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11AND ITU-T SG.16 ); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JC TVC-SITE/, INTERNET ENGINEERING TASK FORCE, IETF, CH, 1 October 2005 (2005-10-01), XP015054891, ISSN: 0000-0003
- [XP] JIANG D GUO HUAWEI TECHNOLOGIES CO S ET AL: "An Incremental Carrier-Grade NAT (CGN) for IPv6 Transition; draft-jiang-v6ops-incremental-cgn-01.txt", AN INCREMENTAL CARRIER-GRADE NAT (CGN) FOR IPV6 TRANSITION; DRAFT-JIANG-V6OPS-INCREMENTAL-CGN-01.TXT, INTERNET ENGINEERING TASK FORCE, IETF; STANDARDWORKINGDRAFT, INTERNET SOCIETY (ISOC) 4, RUE DES FALAISES CH- 1205 GENEVA, SWITZERLAND, no. 1, 29 June 2009 (2009-06-29), XP015062885
- See references of WO 2010057386A1

Cited by

CN103139326A; CN103856581A

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DOCDB simple family (publication)

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